TRANSMITTAL MEMORANDUM FOR SCREENING SITE INSPECTION

Date: August 22, 1990
CERCLIS Site Name: Johnson Controls. Inc. - Teutonia
US EPA WID # 000808857

HRS 1 PRELIMINARY AND PROJECTED SCORES

PRELIMINARY HRS SCORE BASED ON THE SCREENING SITE INSPECTION (SSI) (This score is based on information from the screening site inspection.)

Surface Water 0.00 Groundwater 0.00 Air 0.00 Total 0.00

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (LSI) (This score is based on the expected acquisition of information from the listing site inspection.)

Surface Water 2.52 Groundwater 29.83 Air 0.00 Total 17.30

IMMEDIATE ACTION

We have evaluated this site for the need for immediate action as a result of a substantial threat to either human health or the environment.

The site <u>does</u> present a threat which requires immediate removal action.

 \underline{X} The site $\underline{\text{does not}}$ present a threat which requires immediate removal action.

US EPA RECORDS CENTER REGION 5

RECOMMENDATIONS

Based on HRS related information and evaluation of the immediate removal threat, the Wisconsin Department of Natural Resources concludes from its activities the following: 1. The HRS 1 scores are below 25.00 and therefore the site should be designated as a NFRAP site. The HRS 1 scores are equal to or exceed 25.00, however due to extenuating circumstances (ie. ongoing clean-up) the site should not be designated as a candidate for LSI activities. The HRS 1 scores are equal to or exceed 25.00. As a result, we recommend that the site be designated as a potential LSI candidate. The WDNR will include this site with the other LSI candidate sites when priority (to EPA) sites for LSI activities. The Wisconsin Department of Natural Resources anticipates that the following activities would be required during the LSI in order to establish a sufficient data base to successfully list the facility on the NPL. _____ groundwater characterization ____ air sampling _____ further sampling of surface water _____ further characterization of waste _____ more extensive sampling of residential and municipal ____ collect additional soil and/or stream sediment samples ____ conduct area survey other: 4. XX The HRS 1 Scores are below 25.00, yet The Department believes that the site

4. XX The HRS 1 Scores are below 25.00, yet The Department believes that the site should be recommended for an ESI. The ESI should further characterize surface soil contamination and evaluate the site under the revised scoring system, emphasizing the Direct Contact exposure route.

The Wisconsin Department of Natural Resources would like to make the following additional comments about the site:

1. The surface soils on site show an observed release of chromium. The current scoring system does not score the Direct Contact route. WDNR feels that further investigation is warranted to address the contaminated soils for this site when the Revised HRS is Promulgated.

Press any key to continue.	
HRS Summary Score, (cont.)	
Surface Water	
Observed Release = Site and intervening slope = Precipitation = Distance to Surface Water = Physical State = Total Route Score = Containers = Toxicity/Persistence = Toxic Waste Quantity = Total Waste Score = Surface Water use = Dist. to Sensitive Environment = Distance/Population = Total Targets = Total Score =	0 0 180 180 0 0 0.00
Surface Water Route Score =	0.00

Press any key to continue.

HRS Summary Score, (cont.)	
Air Route Observed Release = Reactivity/Incompatability = Toxicity = Hazardous Waste Quantity = Distance/Population = Distance to Sensitive Environment = Land Use = Total Waste Score = Total Targe Score = Total Score = Total Score =	00 30 30 33 33 0.00
Total Air Score =	0.00
Total HRS score =	0:00

Press any key to continue.

PRO Summary Score	<u>. </u>	
Ground Water		
*Observed Release = *Depth to Aquifer = Precipitation = Permeability = *Physical State = Total Route Score = *Container = Toxicity and Persistence = *Hazardous Waste Quantity = Total Waste Score = Ground Water Use = *Distance to Well/Population = Total Targets = Total Ground Water Score =	45 18 18 20 17 17 17 100 29 83	ı

Press any key to continue.

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PRO Summary Score, (cont)
Surface Water	
*Observed Release = *Site and intervening slope = Precipitation = Distance to Surface Water = Physical State = Total Route Score = *Containers = Toxicity/Persistence = *Toxic Waste Quantity = Total Waste Score = Surface Water use = *Dist. to Sensitive Environment = Distance/Population = Total Targets = Total Score =	0 0 1 1 1 2 0 0 0 0 1 6 2 0 0 0 0 0 0 0 0
Surface Water Route Score =	2.52

Press any key to continue.

PRO Summary Score, (cont.)	
Air Route	
*Observed Release = *Reactivity/Incompatability = *Toxicity = *Hazardous Waste Quantity = 10 istance/population = *Instance to Sensitive Environment = Land Use = Total Waste Score = Total Targe Score = Total Score =	0 30 30 13 33 0.00
Total Air Score =	0.00
Total PRO score =	17130

Press any key to continue.

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HRS Ground Water Route Work Sheet								
Rating Factor	Assign	ed Value	•	Mu pl	ltí ier	Score	Max. Score	Ref. Section
[1] Observed Re	ease	0	45		1	0	45	3.1
If observed If observed	release is release is	given a	score o	f 45, f 0, p	proce	eed to	line [4 line [2]	1.
[2] Route Charac Depth to Ac Concern	teristics quifer of	Ö 1	2 3		2	4	6	3.2
Net Precipit	tation of the	8- 1	2 3		1	1	3	
Unsaturated Physical Sta	i Zone	0 1	2 3		1	0	' 3	
٦	otal Route	Charact	teristics	score	. 7	6	15	
[3] Containment		0 1	2 3	-	1	0	3	3.3
[4] Waste Charac Toxicicty/F Hazardous U Quantity	teristics Persistence Waste	8 3 2	9 12 ₅ 15	18 7 8	1	18 0	18 8	3.4
1	otal Waste	Charact	eristics	score		18	26	
[5] Targets Ground Wate Distance to Well/Popul Served) Nearest	0 1 12 38	2 3 18 20 32 35	10 40	3	3	. 40	3.5
· [1	otal Targe	ts score	•			3	49	
[6] [f line [1] If line [1] i	is 45, mul s 0, multi	tiply ₂ f1) X [4]) X [3 ⁴ X	X [5] (4) X	[5]	0.0E	57,330	
[7] Divide line	[6] by 57,	330 and	multiply	by 10	0 S	=	0.00	<u>.</u>

Fite Name : A:\TEUTONIA

HRS Surface Water Route Work Sheet								
Rating Factor Assigned	Value	Multi plier	Score	Max. Score	Ref. Section			
[1] Observed Release 0	45	1	0	45	4.1			
If observed release is gi If observed release is gi	ven a score of 45 ven a score of 0,	proce	eed to	line [2]	1.			
[2] Route Characteristics Facility Slope and 0 Intervening Terrain 1-yr.24 hr. Rainfall 0	1 2 3	1	0	3	4.2			
I DISTANCE TO NEACEST U	1 2 3	1	2	3				
Surface Water Physical State 0	1 2 3	1	0	3				
Total Route Ch	aracteristics sco	ore	6	15				
[3] Containment 0	1 2 3	1	0	3	4.3			
[4] Waste Characteristics Toxicicty/Persistence 0 Hazardous Waste 0 Quantity	3 2 3 4 ² 5 ¹ 5 1 ⁸ 8	1	18	18	4.4			
Total Waste Ch	aracteristics sco	ore	18	26				
[5] Targets Surface Water Use Distance to Sensitive Environment	1 2 3	3	8	9	4.5			
Distance to Water 12 Intake Downstream 24	16 18 20 30 32 35 40		0					
Total Targets	score		9	55	•			
[6] If line [1] is 45, multip If line [1] is 0, multiply	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	X [5]	0.0E	64,350	-			
[7] Divide line [6] by 64,350	and multiply by	100 S	=	0.00	7_			

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	HRS Air	Route W	ork Sheet				
Rating Factor	Assigne	d Value	•	Multi plier	Score	Max. Score	Ref. Section
[1] Observed Re	lease 0		45	1	0	45	5.1
Date and Lo Sampling Pr	cation: otocol:						-
	is 0, the S is 45, then	a = 0, proceé	Enter on d to line	line [5] [2]			
[2] Waste Charac Reactivity Incompatibi	teristics and	0 1	2 3	1		, 3	5.2
Toxicity Hazardous Was		8 1 ¹ 2	² 4 ³ 5 6 7	8 1		8	
j [Total Route	Charact	teristics s	core		20	
[3] Targets Population 4-Mile Rad Distance to	Within	0 9 21 124	12 15 18 27 30	1		30	5.3
Distance to	_Sensitive	ዕ' 1 ՟ገ	2 3 30	2		6	
Land Use	·	0 1	2 3	1		3	
Γ.	Total Target	s Score	2			39	
[4] Multiply [1]	X [2] X [3	3				35,100	
[5] Divide line	[4] by 35,1	00 and	multiply b	y 100 s	3 a =		0

File Name : A:\TEUTONIA

		PRO Grou	nd Wa	ater	Ro	oute	Work	Sheet			
Ratir	ating Factor Assigned Value Mul pli								Score	Max. Score	Ref. Section
[1]	Observed Re	lease	0		4	5		1	45*	45	3.1
	If observed If observed	release is	gi gi	ven ven	a s	COL	e of de of (5, proc	ceed to	line [4 line [2]].
[2]	Route Charac Depth to Ac Concern	teristics quifer of	0	1	2	3		2	4*	6	3.2
	Net Precipit Permeability Unsaturated	tation g of the	8	. 1	2	3		1	1	3	
	Unsaturated Physical Sta	d Zone ate	0	1	2	3		1	3*	' 3	
	· [1	Total Route	Ch:	arac	ter	ist	ics s	core	9	15	
[3]	Containment	•	0	1	2	3		1	1*	3	3.3
[4]	Waste Charac Toxicicty/F Hazardous V Quantity	teristics Persistence Waste	8	3 6	3	1 ² 5	15 18 7 18	3 1	18 2*	18 8	3.4
	1	otal Waste	Cha	arac	ter	ist	ics s	core	20	26	
[5]	Targets Ground Wate Distance to Well/Popul Served	Nearest	0 12 24	1 38	1	2082	3 8 10 20 35 40	•	3 16*	2 0	3.5
	1	Total Targe	ts s	scor	e				19	49	
[6]	If line [1] [f line [1] i	is 45, multi	tip ply	¥2f	1 <u>1</u>	X_[4	4] X X [4]	[5] X [5]	1.7E	57,330	
[7]	Divide line	[6] by 57,	330	and	mu	lti	oly by	/ 100	S = 2	29.83	

A ** represents a data gap between the Pre and the Pro

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PRO Surface Water Route Work Sheet								
Rating Factor	Assigne	ed Value	e	Multi plier	Score	Max. Score	Ref. Section	
[1] Observed Re	lease (כ	45	1	0*	45	4.1	
If observed If observed	release is release is	given a	a score o	of 45, prod of 0, proc	ceed to	line [4 line [2]	1.	
[2] Route Chara Facility S	cteristics lope and	0 1	2 3	1	0*	3	4.2	
Intervéni 1-yr. 24 hr Distance to	Rainfall Nearest	8. 1	2 3	1/2	2	3		
Surface Wa Physical St	ate	0 1	2 3	1	3*	' 3	_	
	Total Route	Charac	teristics	score	9	15		
[3] Containment		0 1	2 3	1	1*	3	4.3	
[4] Waste Chara Toxicicty/ Hazardous Quantity	cteristics Persistence Waste	8 3 2	9 1 ² 5 ¹⁵	¹⁸ 8 1	1 <u>8</u>	18 8	4.4	
	Total Waste	Charact	teristics	score	20	26		
[5] Targets Surface Wa Distance t Environme	o Sensitive	8 1	2 3	3	8*	2	4.5	
Distance Intake Do	to Water	12 16 24 38	18 20 32 35	40	0			
[-	Total Target	ts score			9	55		
[6] If line [1]	is 45, multip	iply2f	1] X [4] X [3] X	X [5] [4] X [5]	1.6E	64,350		
[7] Divide line	[6] by 64,3	350 and	multiply	by 100	S =	2.52		

A ** represents a data gap between the Pre and the Pro

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File Name : A:\TEUTONIA

	PRO Air R	oute Work Sheet				
Rating Factor	Assigned	Value	Multi plier	Score	Max. Score	Ref. Section
[1] Observed Re	lease 0	45	1	0*	45	5.1
Date and Loc Sampling Pro	cation: otocol:					
If line [1]	is 0, the S is 45, then	a = 0, Enter on l proceed to line [ine [5] [2]			
[2] Waste Charac Reactivity: _Incompatibi	teristics and	0 1 2 3	1		, 3	5.2
Incompatibi Toxicity Hazardous Was Quantity	-	0 1 ¹ 2 3 4 ³ 5 6 7 8	3		8	
	Total Route C	haracteristics sc	ore		20	
[3] Targets Population 4-Mile Rad	Within	0 9 12 15 18 21 12 3 30 18	1		30	5.3
Distance to Environment	Sensitive	0 1 2 3	2		6	
Land Use	L	0 1 2 3	1		3	
Γ-	Total Targets	Score			39	
[4] Multiply [1]	X [2] X [3]		-		35,100	
		0 and multiply by	100	3 a =	ll	0

A '*' represents a data gap

File Name : A:\Teutonia

Ground Water Route (HRS)

1. Observed Release

Contaminants Detected:

Rationale for attributing the contaminants to the facility:

Reference no.

2. Route Characteristics

Depths to Aguifer of Concern:

Depth from the ground surface to the highest seasonal level of the saturated zone [Water table] of the aquifer of concern:

30.00

Reference no.7

Depth from the ground surface to the lowest point of waste disposal/storage:

UNKNOWN

Reference no.

Net Precipitation:

Mean annual or seasonal precipitation (list Months for seasonal):

28.00

Reference no.8

Mean annual lake or seasonal evaporation (list months for seasonal):

28.50

Reference no.8

Net Precipitation:

-0.50

Permeability of Unsaturated Zone:

Soil type in unsaturated zone:

Silt, loams, silty clays, silty loams, clay loams; less permeable limestones, dolomites, and sandstone; moderately permeable till.

Reference no.7,8

UNKNOWN

Reference no.

3. Containment

Method of waste or leachate containment evaluated:

UNKNOWN

Reference no.

4. Waste Characteristics

Toxicity and Persistence:

Toxicity level of evaluated compounds:

Sax Level 3 or NFPA Level 3 or 4

Reference no.6,8

Persistence of evaluated compounds:

Metals, polycyclic compounds and halogenated hydrocarbons.

Reference no.6,8

Hazardous Waste Quantitiy:

Tons/Cubic Yards No. of Drums

Reference no.

5. Targets

Ground Water Use:

Commercial, industrial or irrigation and another water source presently available; not used, but usable.

Reference no.4,5

Distance to nearest well:

UNKNOWN

Reference no.

Population served by Ground Water wells in the aquifer of concern:

UNKNOWN

Reference no.

File Name : A:\Teutonia

Surface Water Route (HRS)

1. Observed Release

Contaminants Detected:

UNKNOWN

Reference no.

2. Route Characteristics

Facility Slope:

Average Slope of facility in percent:

UNKNOWN

Reference no.

Average slope of terrain between facility and closest surface water body in percent:

UNKNOWN

Reference no.

1 - year, 24 - hour rainfall:

2.25 Inches.

Reference no.8

Distance to Nearest Downslope Surface Water:

1000 feet to 1 mile

Reference no.3

Physical State of Waste:

UNKNOWN

Reference no.

Containment

Method of waste or leachate containment evaluated:

UNKNOWN

Reference no.

4. Waste Characteristics

Toxicity and Persistence:

Toxicity level of evaluated compounds:

Sax Level 3 or NFPA Level 3 or 4

Reference no.6,8

Persistence of evaluated compounds:

Metals, polycyclic compounds and halogenated hydrocarbons.

Reference no.6,8

Hazardous Waste Quantitiy:

Tons/Cubic Yards No. of Drums

Reference no.

5. Targets

Surface Water Use:

Drinking water.

Reference no.5

Distance to Sensitive Environment:

Coastal Wetlands Fresh Water Wetlands Critical Habitat

Reference no.

Distance to Surface Water Intake:

> 3 miles

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Reference no.5,12

Population served by Surface Water intake within three miles of contamination route:

> 10,000

Reference no.5,11

File Name : A:\Teutonia

Air Route (HRS)

1. Observed Release

Contaminants Detected:

Rationale for attributing the contaminats to the facility:

UNKNOWN

Reference no.

2. Waste Characteristics

Reactivity and Incompatability:

Most Reactive Compound:

UNKNOWN

Reference no.

Toxicity:

UNKNOWN

Reference no.

Hazardous Waste Quantity:

Tons/Cubic Yards No. of Drums

Reference no.

3. Targets

Population Within 4-Mile Radius

> 10,000

Reference no. 5,11

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Distance to Population:

0- 1/4 mile

Reference no. 3,6

Distance to Sensitive Environment:

Coastal Wetlands Fresh Water Wetlands Critical Habitat UNKNOWN

Reference no.

Land Use:

Commer/indust Nat/st.parks.Res. Ag land < 1/4 mile 1/4 mile Prime*' 1/2 mile Landmark in view

Reference no. 6

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File Name : A:\Teutonia
                       Ground Water Route (PRO)

    Observed Release

     Contaminants Detected:
     Rationale for attributing the contaminants to the facility:
          Reference no.6,7
2. Route Characteristics
     Depths to Aquifer of Concern:
     Depth from the ground surface to the highest seasonal level of the saturated zone [Water table] of the aquifer of concern:
              30.00
          Reference no.7
     5.00
          Reference no.2,6,7
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Net Precipitation:

Mean annual or seasonal precipitation (list Months for seasonal):

28.00

Reference no.8

Mean annual lake or seasonal evaporation (list months for seasonal):

28.50

Reference no.8

Net Precipitation:

-0.50

Permeability of Unsaturated Zone:

Soil type in unsaturated zone:

Silt, loams, silty clays, silty loams,

clay loams; less permeable limestones, dolomites, and sandstone; moderately permeable till.

Reference no.7,8

Liquid, Sludge or Gas.

Reference no.6,9

3. Containment

Method of waste or leachate containment evaluated:

Method with the highest score:

Containers

Containers sealed and in sound condition, no liner or moderately permeable liner.

Reference no.6,10

4. Waste Characteristics

Toxicity and Persistence:

Toxicity level of evaluated compounds:

Sax Level 3 or NFPA Level 3 or 4

Reference no.6,8

Persistence of evaluated compounds:

Metals, polycyclic compounds and halogenated hydrocarbons.

Reference no.6,8

Hazardous Waste Quantitiy:

Tons/Cubic Yards

lo, of Drums

Reference no.9

5. Targets

Ground Water Use:

Commercial, industrial or irrigation and another

water source presently available; not used, but usable.

Reference no.4,5

Distance to nearest well:

2001 feet to 1 mile

Reference no.4

Population served by Ground Water wells in the aquifer of concern:

101 - 1,000

Reference no.4,11

File Name : A:\Teutonia

Surface Water Route (PRO)

1. Observed Release

Contaminants Detected:

Reference no.3.6

2. Route Characteristics

Facility Slope:

Average Slope of facility in percent:

Facility has average slope < or = 3%

Reference no.3,6

Closed basin or average slope of < or = 3%

Reference no.3,6

1 - year, 24 - hour rainfall:

2.25 Inches.

Reference no.8

Distance to Nearest Downslope Surface Water:

1000 feet to 1 mile

Reference no.3

Physical State of Waste:

Liquid, Studge or Gas.

Reference no.9

3. Containment

Method of waste or leachate containment evaluated:

Method with the highest score:

Containers

Containers sealed and in sound condition, but not surrounded by sound diversion or containment structures.

Reference no.10

4. Waste Characteristics

Toxicity and Persistence:

Toxicity level of evaluated compounds:

Sax Level 3 or NFPA Level 3 or 4

Reference no.6,8

Persistence of evaluated compounds:

Metals, polycyclic compounds and halogenated hydrocarbons.

Reference no.6,8

Hazardous Waste Quantitiy:

Tons/Cubic Yards No. of Drums

Reference no.9

5. Targets

Surface Water Use:

Drinking water.

Reference no.5

Distance to Sensitive Environment:

Coastal Wetlands Fresh Water Wetlands Critical Habitat

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> 2 miles

> 1 mile

> 1 mile

Reference no.3

Distance to Surface Water Intake:

> 3 miles

Reference no.5,12 .

Population served by Surface Water intake within three miles of contamination route:

> 10,000

Reference no.5,11

File Name : A:\Teutonia

Air Route (PRO)

1. Observed Release

Contaminants Detected:

Rationale for attributing the contaminats to the facility:

Reference no. 6

2. Waste Characteristics

Reactivity and Incompatability:

Most Reactive Compound:

No Incompatible substances are present

Reference no. 8

Toxicity:

Sax Level 3 or NFPA Level 3 or 4

Reference no. 6

Hazardous Waste Quantity:

Tons Cubic Yards

No. of Drums

Reference no. 9

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Targets
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Population Within 4-Mile Radius

> 10,000

Reference no. 5,11

Distance to Population: .

0-, 1/4 mile

Reference no. 3,6

Distance to Sensitive Environment:

Coastal Wetlands Fresh Water Wetlands Critical Habitat > 2 miles > 1 mile

Reference no. 3

Land Use:

Commer/indust Nat/st.parks.Res. Ag land Prime* Landmark < 1/4 mile < 1/4 mile 1/4 mile 1/2 mile in view

Reference no. 6

